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CONTROL - Shasta
Insects
(Burney Project)

Fall River Mills, California
March 20, 1946

REPORT ON INSECT CONTROL MAINTENANCE PROJECT

Burney Falls State Park Zone

Pit District

Shasta National Forest

1946

ACCOMPLISHMENT

Summary

Total Area Treated (Acres)	1220
Total Number of Trees Treated	34
Volume of Timber Treated (F. B. M.)	20,400
Total Project Cost	$657.52
Cost per Acre	$ 0.52
Cost per Tree	$ 17.71
Cost per M. B. M.	$ 34.15

The Forest Service has completed direct insect control work on its lands within the Burney Falls State Park maintenance zone as its obligated share of a cooperative control program proposed by the Bureau of Entomology and Plant Quarantine. These lands were included in the Burney-McCloud insect control project of 1945; it was decided that maintenance measures should be carried out in 1946 to preserve the aesthetic values within the Park zone. The execution of the work on Government lands generally followed the outline contained in "Plan for Insect Control Maintenance Project" submitted February 21 and approved by the Forest Supervisor on February 25, 1946.

CONDITION

On a project area of 1220 acres only thirty-six trees were treated, or an average of merely one tree per thirty-four acres; the volume of timber grossed 26.4 M.B.M., or only twenty-two board feet per acre--such a light degree of infestation certainly seems far beyond the point of diminishing returns.

LOCATION

Legal description of the Forest Service lands within the project area was included in the plan previously submitted. A map showing the location of these lands and a plat indicating the number of trees spotted by forties are contained in the appendix.

ORGANIZATION

Organization on the ground was at variance with that originally planned; it seemed practical to alter methods to increase efficiency and speed accomplishment.

Spotting
~~SPOTTING~~

Call, Dolan, and Cellermann handled all the spotting work. Dolan ran compass and handled the mapping while the other two men, both experienced in timber work, did the actual spotting. Additional advantages in this system lay in the fact that Dolan was given casual training in spotting and at the same time could familiarize himself with the lie of the land and later lead the treating crews with a minimum of lost time to trees to be treated.

Treating
~~TREATING~~

Dolan acted as foreman of a four-man crew comprised of McCrae, Porter, Sylvester, and O'Neal. Because several of the men are physically handicapped, the work proceeded slowly but nonetheless steadily. Since the distribution of the infested trees was decidedly sporadic, two men went ahead with the felling while the others followed with direct control. After felling had been

completed on any one parcel the fallers moved back and helped directly with the peeling and burning. It is admitted that four and five men probably don't work to optimum advantage together on direct peel-burn treatment, but on the other hand at least two of the men couldn't fall effectively and it seemed reasonable to complete the work progressively by compartments.

The one tree east of Arkright Flat (SW SE Section 2, T. 36 N., R. 3 E.) was left untreated. It could not be caught during the days the crew was working in that general vicinity, and the undue cost of making a return trip for the sake of a single isolated small tree seemed highly impractical.

Whereas the original instructions had been to the effect that stumps should be peeled and burned, a later reversal of this procedure was made in direct on-the-ground instruction to the crew by "outside overhead." In another instance a tree (#8 in appendix tabulation) was treated merely to suit the fancy of "outside overhead", since it had been previously conceded to District personnel that treatment of the particular tree was unnecessary.

COST RECORD

Errors in the cost estimate prepared with the project plan tended to compensate each other, so that the total project cost was fairly close to the prediction. Mileage was grossly underestimated but it didn't amount to much in dollars and cents. Spotting costs were below the estimate because of contributed time. Treating actually proceeded at a rate slower than had been anticipated, but the infested volume was extremely light and the cold stormy weather was conducive to steady work. Green trees which are too big to buck, deck, and burn are very difficult and disheartening to peel, and require a seemingly endless number of man hours to treat. Detailed cost figures are contained in the following itemized summary:

Direct Costs

Spotting	
Labor - 9 man days	$ 85.85
Travel - 249 miles @ $0.065	16.18
Treating	
Labor - 33.5 man days	319.44
Travel - 456 miles @ $0.065	29.64
Office Overhead	74.06
Subtotal, Direct Costs	$525.17

Contributed Time

Field	63.50
Office	48.85
Subtotal, Contributed Time	$112.35
Total Project Costs	$637.52

Submitted by:

J. Gellermann
Timber Management Assistant

March 20, 1946

Approved by:

L. L. Feight
District Forest Ranger

March 21, 1946

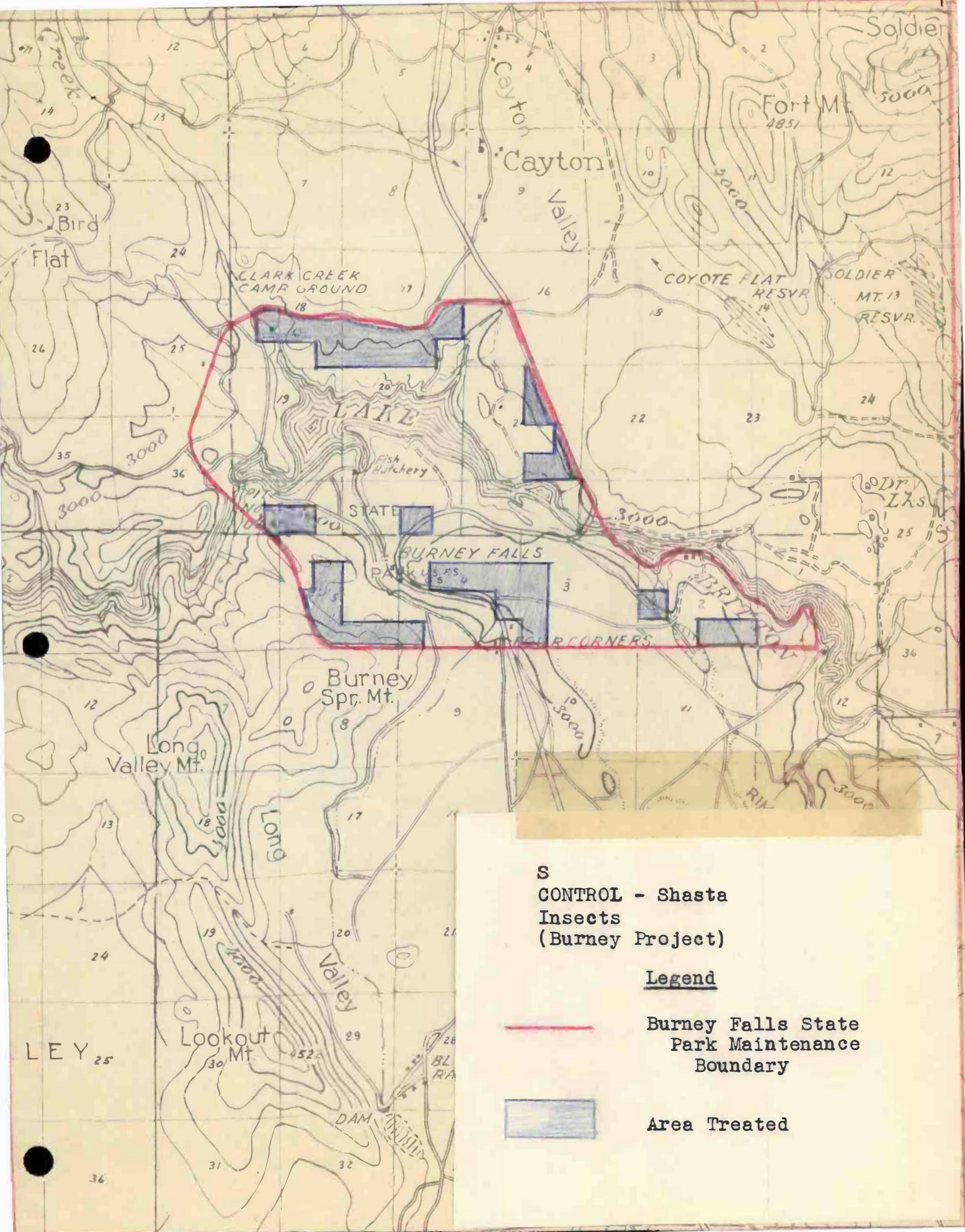
Roy Ellingwood
Acting Forest Supervisor

July 15, 1946

APPENDIX

Individual record of Trees Spotted

Tree Number	Killed By	D. B. H.	Volume D. C.
1	Flatheads	16	14
2	D. b.	24	59
3	D. b.	30	115
4	D. b.	26	98
5	D. b.	18	22
6	D. b.	16	14
7	D. b.	26	98
8	Ips	24	75
9	D. b.	40	268
10	Flatheads	42	309
11	Roundheads	22	44
12	Ips	8	1
13	D. b.	28	237
14	Flatheads	16	14
15	Flatheads	10	2
16	D. b.	26	75
17	Flatheads	16	14
501	Flatheads	16	14
502	Flatheads	18	22
503	D. b.	18	22
504	D. b.	26	75
505	D. b.	32	144
506	Flatheads	12	3
507	D. b.	32	144
508	D. b.	14	8
509	D. b.	26	75
510	D. b.	22	44
511	D. b.	12	3
512	D. b.	34	172
513	D. b.	26	75
514	D. b.	14	8
515	D. b.	28	98
516	D. b.	12	3
517	D. b.	28	98
518	D. b.	26	75
519	D. b.	28	98
520	Flatheads	22	44 (Not treated)



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Legend

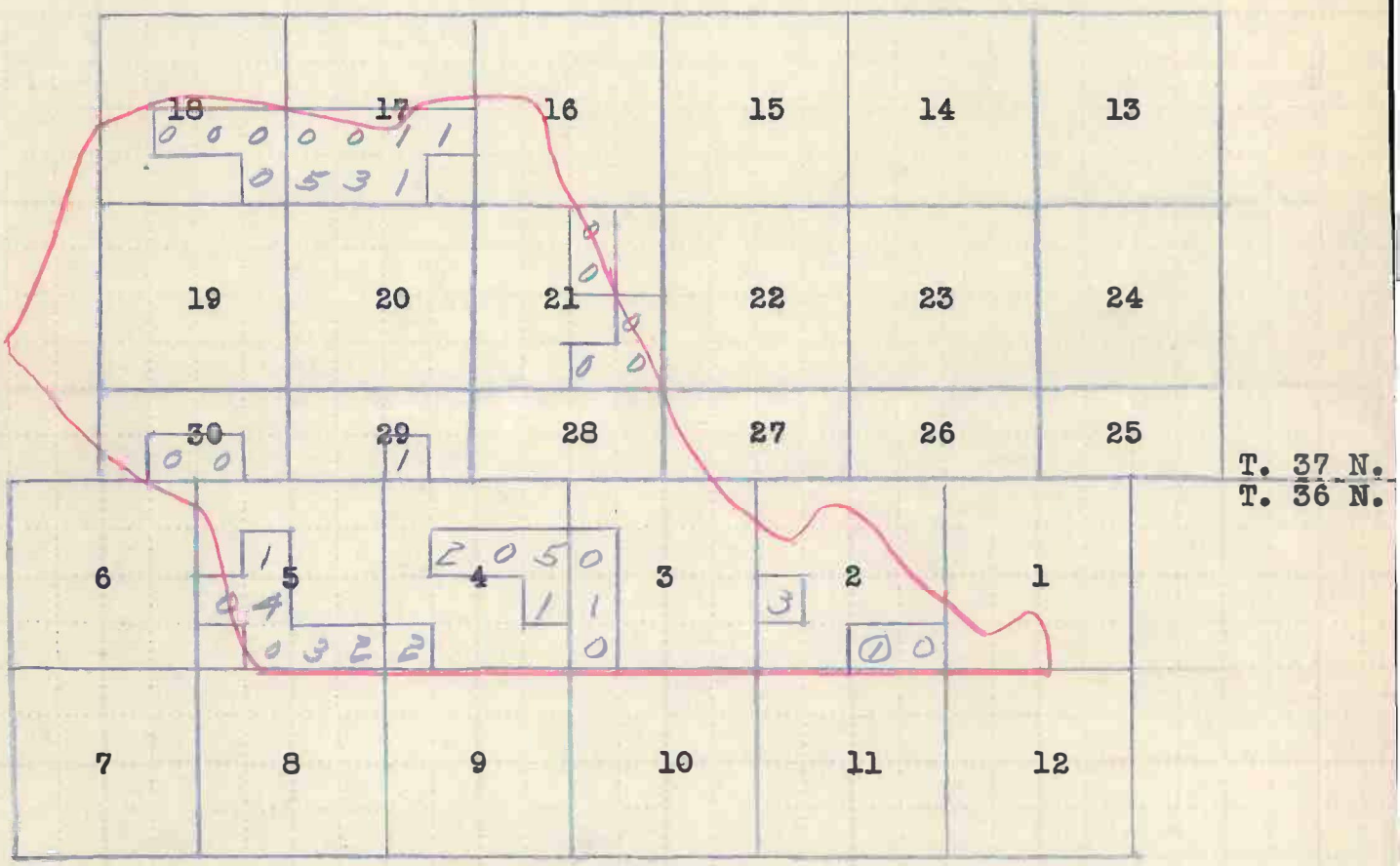
Burney Falls State
Park Maintenance
Boundary

Area Treated

Plat of Number of Trees Treated by Forties

Burney Falls State Park Zone

1946



Burney Falls State Park Maintenance Boundary

(1) Single Tree East of Arkright Flat Not Treated

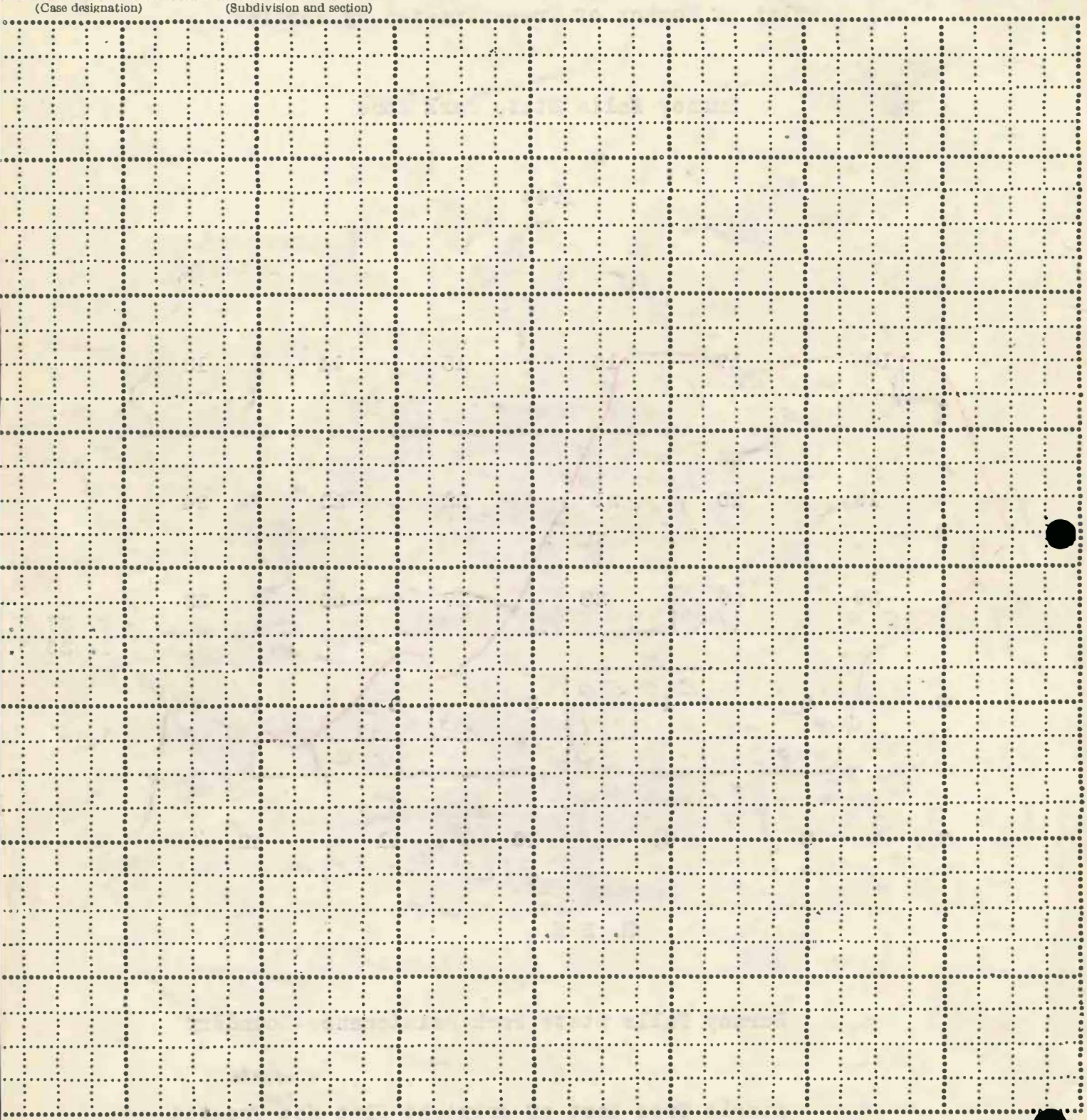
Form 878
ev. Feb. 1930)

UNITED STATES DEPARTMENT OF AGRICULTURE—FOREST SERVICE

_____ Land district. Mag. declin. _____ Area _____ ac

_____ _____ T. _____ R. _____ Mer. Scale _____ inches = 1 mile

(Case designation) (Subdivision and section)



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pproved _____, 19____

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Approving Officer

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